

look

Jonathan Devor

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My passion is to tackle real-world problems using creative technological solutions. I'm an algorithm engineer and data scientist, with a firm respect for business needs. I have over 10 years of experience leading projects, from a "need" to a working prototype and integration. I've worked on a wide range of challenges, from identifying driving violations and online fraud to optimizing investment strategies. In all cases I was able to introduce novel approaches and facilitate key breakthroughs. Several of these innovations are now registered as patents. I'm seeking the next challenge to sink my teeth into.

TECHNICAL SKILLS:	Algorithms, numerical methods, big data, machine learning, image analysis, signal processing, optimizations, modeling, simulations, and visualizations. Programming: Python, C/C++, Perl, Matlab, Derive, IDL. Native speaker of both English and Hebrew.
2021 - current	Senior Algorithm Developer, Mobileye, Jerusalem, Israel Road Experience Management (REM) team, implementing large-scale cloud-based mapping, which is key for the reliable operation of automated vehicles.
2016 - 2021	Director of Research, RoadMetric, Jerusalem, Israel Managed a team of researchers with a focus on AI, data science, and advanced image processing. Initiated new products, patents, and standards. In 2021 RoadMetric was acquired by Australia-based Redflex Traffic Systems.
2016	Data Scientist, Forter, Tel-Aviv, Israel Built an interactive tool for visualizing and evaluating Forter's fraud-detecting model.
2014 - 2015	Senior Quantitative Researcher, WorldQuant, Ramat Gan, Israel Constructed novel investment strategies for the U.S. and international markets.
2012 - 2013	Postdoc in Astronomy, Tel-Aviv University, Israel Developed pipelines for the automated analysis of stellar variability time series.
2008 - 2011	Software Engineer, Cisco Systems, San Jose, CA Created methods that enhance the quality and reliability of internet multicast video. Member of the IPTV Visual Quality Experience (VQE) development team.
2005 - 2006	Head teaching fellow, Astronomy, Harvard College, Cambridge, MA
2004	Research Assistant, Los Alamos National Laboratory, Los Alamos, NM Developed automated machine-learning classification methods for stellar light curves.
1998 - 2001	Software Engineer / Consultant, Inspectron Corp., Chelmsford, MA Wrote embedded software for ultra-fast optical character recognition (OCR).
1995 - 1998	8200 Unit, Intelligence Corps, IDF, Israel

EDUCATION: **Ph.D. in Astronomy**, Harvard University, Center for Astrophysics (2008)
B.S. in Computer Science and Physics, The Hebrew University of Jerusalem
(graduated Magna Cum Lauda 2002 ; average grade: 94)

PATENTS: Aviv I., Friedmann, E., **Devor J.**, *Increasing microchip production yield by optimizing testing with artificial intelligence* , 63318423 (provisional USA 2022)
Aviv I., Friedmann, E., **Devor J.**, *Using artificial intelligence to identify common causes of failure*, 63328328 (provisional USA 2022)
Devor J., Frolov M., Muchnik I., Zlotogorski H., *Measuring vehicle speeds with an uncalibrated camera*, GB2599380 (pending UK 2020)
Devor J., Frolov M., Muchnik I., Zlotogorski H., *Training a machine to recognize a motor vehicle driver using a mobile device*, GB2585005 (UK 2019)
Devor J., Bensimhoun M., Muchnik I., Silvera E., *Detection and documentation of speeding violations*, PCT/IL2019/050937, GB2576538, 16/546329 (PCT, UK, USA 2018)
Devor J. and Kirkpatrick S., *Method and device for measuring an electrical current flowing in a wire and/or the wire's location*, Hebrew University, 60/434,636 (USA 2003)
Zhang X., Linares G., **Devor J.**, Unni M., and Berquist K., *Method for embedding non-intrusive encoded data in printed matter*, Inspectron Corp., 6,354,630 (USA 2002)

EXPERT ADVISORY PANEL: **Standards Institution of Israel:** *Minimum requirements for traffic violation detection and recording measures: Manned enforcement apparatus – Doppler radar speed measuring instrument* (SI 5140 part 2.3 ; approved 2020).

SELECTED ACADEMIC PUBLICATIONS: (peer reviewed)
Devor J., *On the development and applications of automated searches for eclipsing binary stars*, Ph.D. Thesis, Harvard University (2008)
Devor J., Charbonneau D., Torres G., Blake C.H., White R., Rabus M., O'Donovan F.T., Mandushev G., Bakos Á.G., Fűrész G., and Szentgyorgyi A., *T-Lyr1-17236: A Long-Period Low-Mass Eclipsing Binary*, The Astrophysical Journal, 687, 1253 (2008)
Devor J., Charbonneau D., O'Donovan F.T., Mandushev G., and Torres G., *Identification, classifications, and absolute properties of 773 eclipsing binaries found in the TrES survey*, The Astronomical Journal, 135, 850 (2008)
Devor J. and Charbonneau D., *MECI: A Method for Eclipsing Component Identification*, The Astrophysical Journal, 653, 647 (2006)
Devor J. and Charbonneau D., *A method for eclipsing component identification in large photometric datasets*, Astrophysics and Space Science, 304, 351 (2006)
Devor J., *Solutions for 10,000 eclipsing binaries in the bulge fields of OGLE II using DEBiL*, The Astrophysical Journal, 628, 411 (2005)

PRIZES & AWARDS:

- **Quora Top Writer**, currently with over 10 million views (2018)
- Recognized as a **Competent Communicator** by Toastmasters International (2010)
- Team (VQE) won the **Pioneer Award** for core technology, the highest distinction given by Cisco Systems to a product development team, San Jose, CA (2009)
- 2nd place at the **U.S. Open RoboCup**, Atlanta, GA. Built 5 autonomous robots that play soccer together, as part of the Harvard-MIT RFC-Cambridge team (2006)
- Certificate of **Distinction in Teaching**, Harvard University (2003-2004)
- 6th plc. at the 3rd Int'l Collegiate **Dragon Boat Championship**, Tianjin, China (2003)
- Schulman Prize in **Physics**, Hebrew University High School, Jerusalem, Israel (1995)
- 3rd plc. in the 15th "**Cities**" **Math Contest**, Technion- Israel Inst. of Tech. (1995)
- Bronze medal at the 26th **Int'l Physics Olympiad**, Canberra, Australia (1995)